

WHAT IS CLAIMED IS:

1. A fibre-reinforced building article having fire protection properties, comprising a matrix of a binding material comprising an aluminous cement, a carboxylic ether polymer based plasticizer, a fugitive material, filler, and alkali-resistant glass fibers, and at least one fiber layer of alkali-resistant glass fibers, incorporated in said matrix.
2. The building article according to claim 1, wherein the weight ratio of the plasticizer with respect to the aluminous cement is in the range of 3-5%.
3. The building article according to claim 1, wherein the filler comprises granular waste materials.
4. The building article according to claim 1, wherein the plasticizer comprises a carboxylate ether polymer having long side chains attached to the backbone of the polymer.
5. The building article according to claim 1, wherein the fugitive material comprises sawdust.
6. The building article according to claim 1, comprising at least two spaced apart coplanar fiber layers, wherein the distance between these fiber layers is larger than the distance of a fibrous layer to the surface of the building article.
7. The building article according to claim 1, wherein at least one layer of alkali-resistant glass fibers comprises parallel glass rovings.
8. The building article according to claim 6, wherein the building article has the shape of a flat panel.
9. The building article according to claim 1, wherein the building article has the shape of a building brick or building block.

10. A method for manufacturing a fibre-reinforced building article having fire protection properties, comprising casting an aqueous mixture of binding material comprising an aluminous cement, a fugitive material, filler, alkali-resistant fibers and a carboxylic ether polymer based plasticizer, into a mould, and positioning additional alkali-resistant glass fibers in at least one fiber layer in the mould during casting, in order to obtain a preform and allowing the thus obtained preform to dry.

11. The method according to claim 10, wherein the weight ratio of the plasticizer with respect to the aluminous cement is in the range of 3-5%.

12. The method according to claim 10, wherein the plasticizer comprises a carboxylate ether polymer having relatively long side chains attached to the backbone of the polymer.

13. The method according to claim 10, wherein the filler comprises granular waste material.

14. The method according to claim 10, wherein the fugitive material comprises sawdust.

15. The method according to claim 10, wherein the mould has the shape of a rectangular box having a small depth.

16. The method according to claim 10, comprising the steps of feeding a mould, positioning a water impermeable foil in the mould, casting a first outer layer of binding material in the mould, positioning at least one layer of glass fibers in the mould, casting at least one further layer of binding material in the mould, and positioning a water impermeable foil over the layer of binding material last casted.